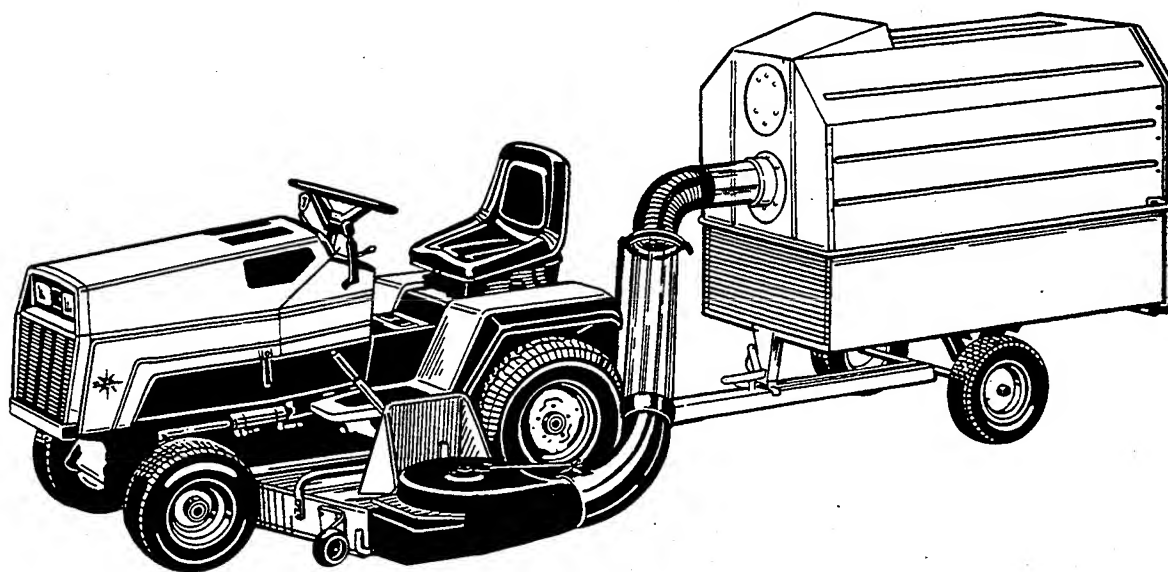


COLLECTION HOSE & HITCH ASSEMBLY

**FOR USE WITH MOWER DRIVEN VAC COLLECTOR
AND 50 BUSHEL TRAILING CART ON
LARGE FRAME GARDEN TRACTOR**



FORM 1702793-92
PRINTED IN U.S.A.

FOR 42"/48" MOWER
MFG. NO. 1691610

FOR 60" MOWER
MFG. NO. 1691609

Table of Contents

Decals	1
General Description	1
Safety Rules	2
Installation	
U-Bracket & L-Bracket	3
Drawbar & Supports	4
Tube & Elbows	5
Cart Adaptor Plate	6
Operation	7
Maintenance	7
Removal	7

Decals



Located on Blower.

NOTE: To clean clear mid-tube on Deluxe Grass Catcher wash with warm water and mild soap or detergent. Use a soft clean sponge or cloth. DO NOT use abrasive, alkaline, or petroleum based cleaners.

Located on Cart.

General Description

This collection hose and hitch has been designed to use the 50 bushel trailing cart with the mower driven vacuum collector.

Installation and operation instructions for the vacuum collector and cart are each contained in separate manuals. We recommend you keep all these manuals together for easy reference.


Assembly instructions in this manual have been organized according to four installation steps:

- a. U-bracket and L-bracket
- b. Drawbar and supports
- c. Tube and elbows
- d. Cart adaptor plate

Parts and hardware for each step are shown in an illustration preceeding the section. Parts identified by A, B, C, etc. in the illustration are also identified in the photographs with the same letter.

Safety Rules



Read these safety rules and the safety rules in your Operator's Manual and follow them closely. Failure to obey these rules could result in loss of control of vehicle, severe personal injury to yourself, or damage to property or equipment. The triangle  in the text signifies important cautions or warnings which must be followed.



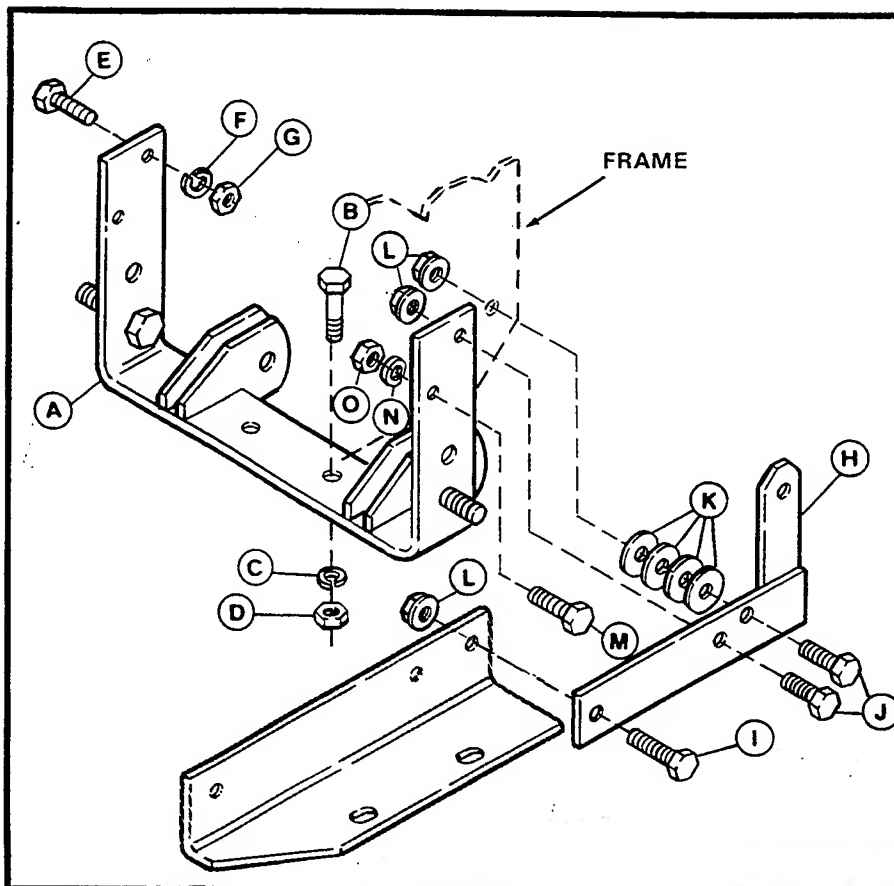
WARNING

When blower assembly is removed from mower deck, the deflector must be installed as described in "Operating Without Collection System" section in the blower assembly Operator's Manual.

1. Know the controls and how to stop quickly. **READ THE TRACTOR'S OWNER'S MANUAL.**
2. Disengage the PTO and shut the tractor engine off before attaching, adjusting, or disconnecting the Collection System.
3. Check the cart to make sure it is attached securely to tractor before operating.
4. Check the latch handle to make sure it is engaged so the cart's box is locked to the frame.
5. Look behind to make sure the area is clear before backing up.
6. **DO NOT** turn sharply when the tractor is alongside a building or any object.
7. **DO NOT** carry passengers in the cart.
8. **CAUTION:** For added tractor stability and to prevent tipping or loss of control;
 - a. Reduce ground speed on uneven ground and when turning corners.
 - b. Reduce loads on hillsides. It is recommended that the Collection System be kept only half full when traveling up and down slopes. Start mowing on slopes when the Collection System is empty.
 - c. Mow up and down the face of slopes; **never across the face of any slope.**
9. **CAUTION:** Objects may be thrown from mower.
For your safety:
 - a. **DO NOT** remove any part of the collection system while the mower blades are turning. Shut off the engine before opening the door or removing the grass chute.
 - b. Be sure the complete Collection System is in place (cover secure and grass chute connected) before operating the mower.
10. For best results when mowing grass: Set the mower to cut from 1 to 2 inches of grass. If grass is exceptionally tall, set your mower as high as possible for first cutting. Lower cutting height at succeeding cuttings until proper height is reached. It may be necessary to mow tall grass at a slower tractor speed.

Installation

A. U-Bracket & L-Bracket



PARTS

QTY.

Step 1

A. U-Bracket (Hitch)	1
B. Capscrew, 1/2-13 x 1-1/4	2
C. Lockwasher, 1/2	2
D. Nut, 1/2-13	2

Step 2

E. Capscrew, 7/16-14 x 1-1/4	2
F. Lockwasher, 7/16	2
G. Nut, 7/16-14	2

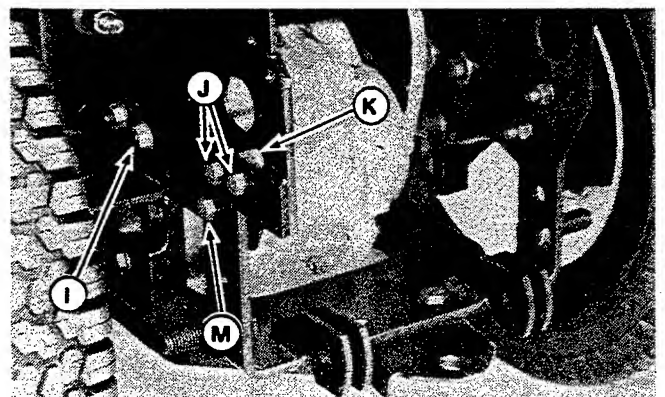
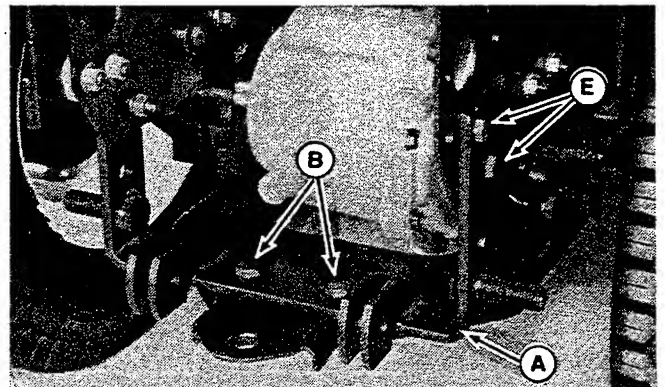
Step 3

H. L-Bracket	1
I. Capscrew, 7/16-14 x 1-3/4	1
J. Capscrew, 7/16-14 x 1-1/4	2
K. Flat Washers	4
L. Flange Nuts	3
M. Capscrew, 7/16-14 x 1-1/4	1
N. Lockwasher	1
O. Nut	1

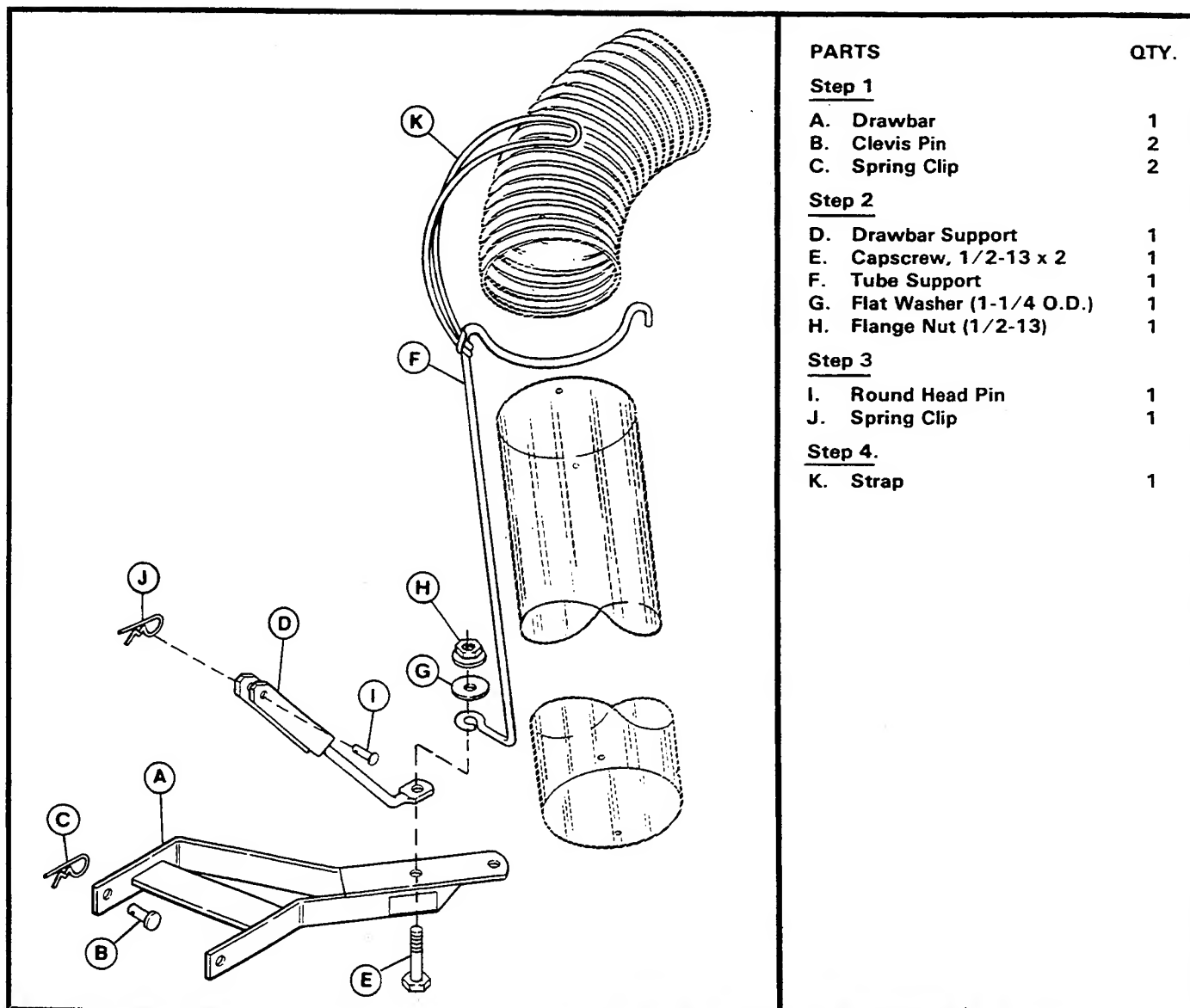
NOTE

If 3-point hitch is installed on tractor, proceed to Section B, "Drawbar and Supports"

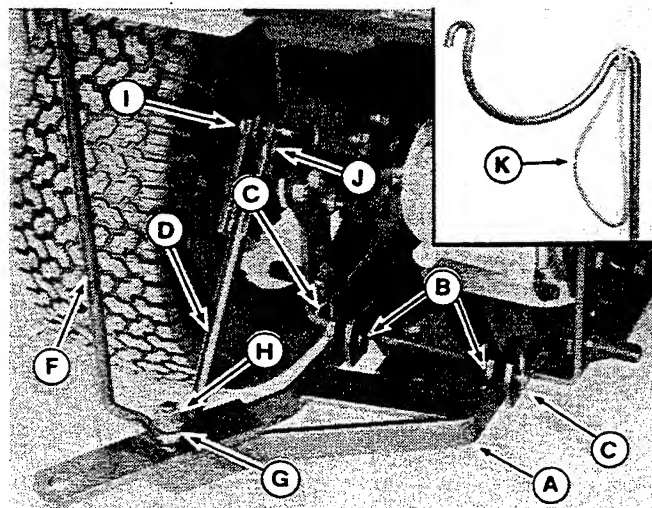
1. Install U-bracket (A) to existing drawbar with two capscrews (B), lockwashers (C), and nuts (D).
2. On right-hand side, install U-bracket to frame with two capscrews (E), lockwashers (F), and locknuts (G).
3. To install left-hand side:
 - a. Remove existing 7/16-14 x 1-1/4" capscrew (location I). Install front capscrew (I) through L-bracket and frame. Secure with flange nut (L).
 - b. Install two capscrews (J) thru L-bracket (front capscrew will also extend thru U-bracket). On rear capscrew, install four flat washers (K) as spacers between L-bracket and frame. Secure both capscrews with flange nuts (L).
 - c. Install front 1-1/4" capscrew (M) through U-bracket and frame. Secure with lockwasher (N) and nut (O).



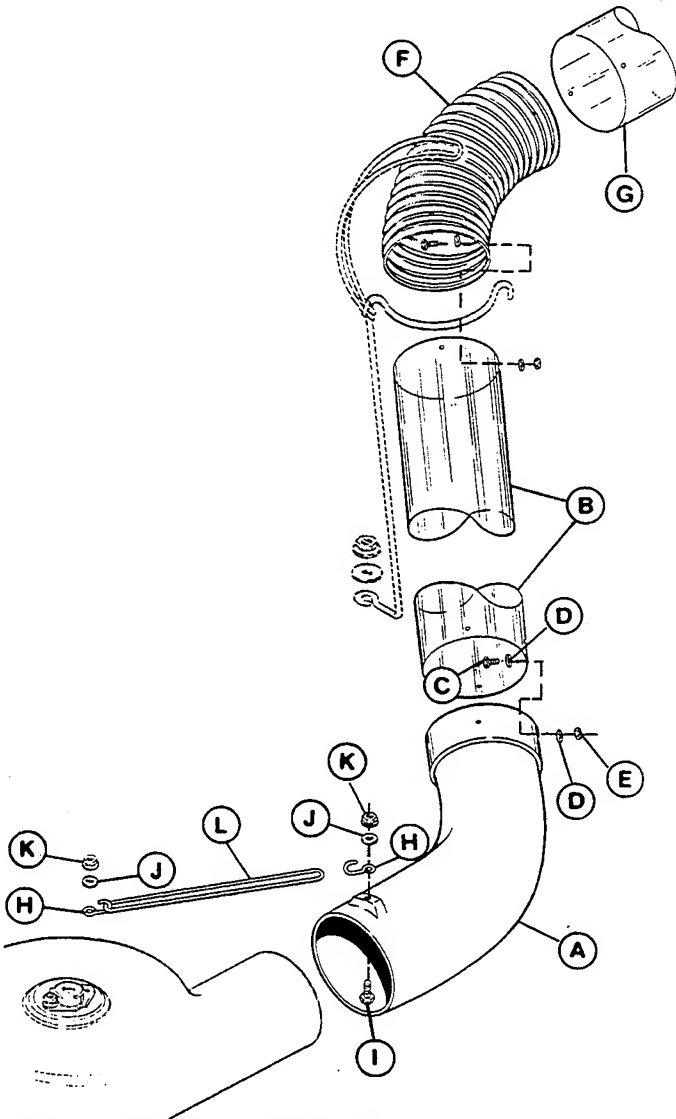
B. Drawbar and Supports



1. Connect drawbar (A) to U-bracket with clevis pin (B). Secure pins with spring clips (C). Drawbar will be free to pivot up and down.
2. Install capscrew (E) through drawbar and place drawbar support (D) and tube support (F) on capscrew. Secure with flat washer (G) and flange nut (H). Tube support (F) should be parallel with rear of tractor.
3. Raise drawbar up so that drawbar support is aligned with top hole of L-bracket. Attach to 3-point hitch if installed on tractor. Secure with round head pin (I) and spring clip (J).
4. Attach long strap (K) to tube support (F).



C. Tube and Elbows



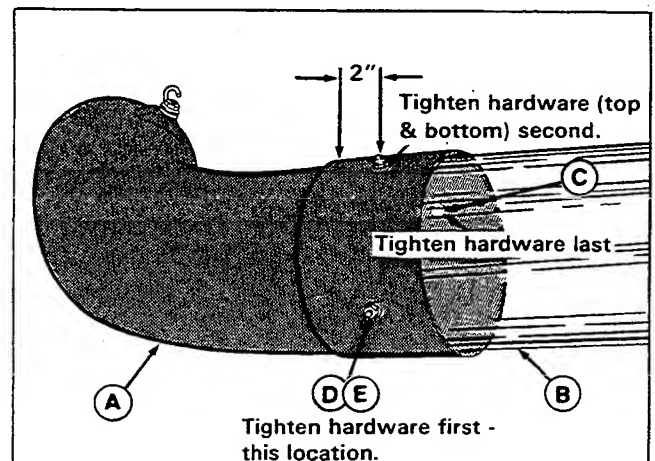
The diagram shows an exploded view of the assembly. At the top is a rigid elbow (A) with four pre-drilled holes. Below it is a long clear tube (B) with four corresponding holes. A truss head screw (C) and washer (D) are shown being inserted into the top hole of the elbow. A locknut (E) is shown being inserted into the bottom hole of the elbow. A flex hose (F) is shown being inserted into the top hole of the tube. A short clear tube (G) is shown being inserted into the bottom hole of the tube. Hardware (H, I, J, K, L) is shown being inserted into the top hole of the tube. The assembly is shown being tightened.

PARTS	QTY.
Step 1	
A. Rigid Elbow	1
B. Clear Tube, Long	1
C. Screw, Truss Head 10-32 x 1/2	4
D. Washer, Flat	8
E. Locknut, 10-32	4
Step 2	
F. Flex Hose (Hardware - C, D, E)	1
Step 3	
G. Clear Tube, Short (Hardware - C, D, E)	1
Step 4	
H. Hooks	2
I. Capscrew, 5/16-18 x 1/2	1
J. Washer, 5/16	1
K. Flange Nut, 5/16-18	1
L. Strap	1

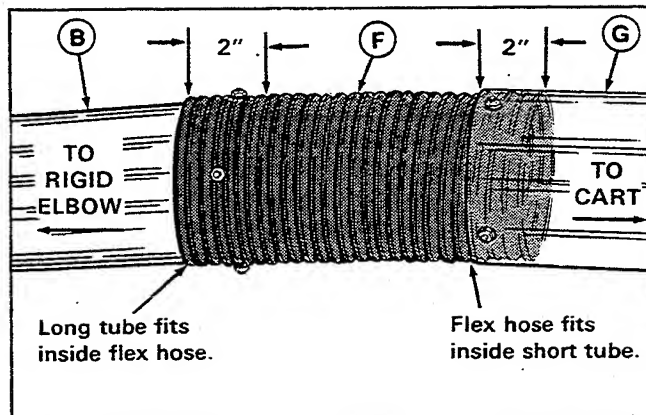
NOTE

On long clear tube, bottom pre-drilled holes are 2" from end (toward rigid elbow). Top pre-drilled holes are 1/2" from end (toward flex hose). Also, the following order of tube assembly is important due to tube length and necessary hardware.

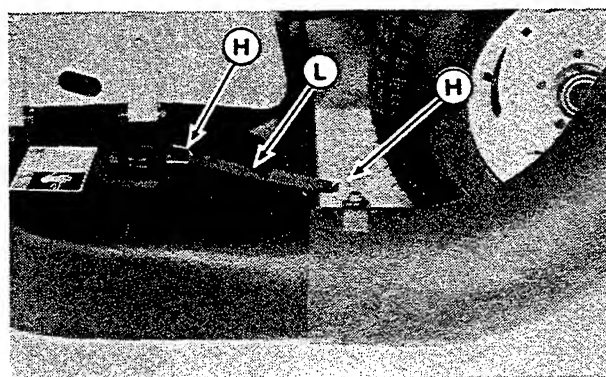
1. Align holes in rigid elbow (A) with holes in clear tube (B). From inside elbow, install trusshead screw (C) and washer (D) in four locations. Secure on outside of tube with washer (D) and locknut (E).



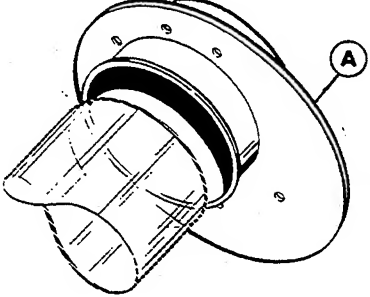
2. Install flex hose (F) to outside of long clear tube (B). Make sure hose overlaps tube by 2". Punch four holes in hose aligned with tube holes. Install screw and washer (C, D, on inside); secure with washer and nut (D, E, on outside).
3. Install other end of flex hose (F) to inside of short clear tube (G). Install by same method as step 2.



4. Install capscrew (I) through rigid elbow. Place hook (H) on capscrew and secure with washer (J) and flange nut (K). Install other hook onto rear capscrew on blower housing.
5. Install rigid elbow to blower housing and secure with rubber strap (L).
6. Position elbow and tube assembly onto tube support and secure with long rubber strap.

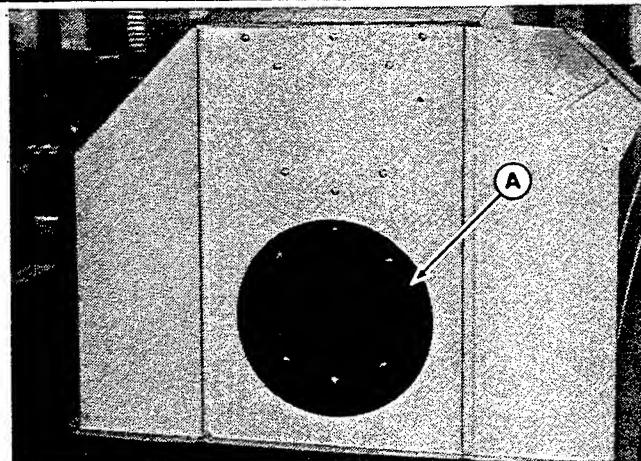


D. Cart Adaptor Plate

	PARTS	QTY.
	<u>Step 3</u>	
	A. Adaptor Plate, 7"	1

NOTE

- 7" adaptor plate must be used in bottom location as shown.
1. If plate with 6" opening is installed in top location, remove it. Retain hardware.
 2. Install flat cover plate (either from package or from bottom hole location) in top hole location. Reuse existing hardware.
 3. Install 7" adaptor plate (A) in lower location. Reuse hardware removed in step 1. (Mower must be in lowered position).
 4. Install short clear tube to adaptor plate. Capscrew may be left out where top and bottom plates overlap.



Operation



WARNING

For safety reasons, grass and debris are to be removed only after engine is shut off, key removed, and all moving parts stopped.



WARNING

Do not remove any part of the collection system while tractor is running.



CAUTION

Weight limit in cart is 400 lbs.



CAUTION

Rear wheel weights are required for safe operation of the cart.

Before Operation

Clear the lawn of all sticks, stones, wire and other debris which may be caught or thrown by the mower blades.

Clean the tube with mild detergent (other products may damage tube). The flow of grass can be seen through the tube while mowing.

Check grass condition. If wet, wait until later in the day. If grass is wet, plugging may occur.

For efficient collection, air circulation under the mower deck, through the chute and into the cart is very important. For this reason, you should remove grass and debris from underside of mower deck, discharge chute and cart.

The blower, tube and elbow can be removed for cleaning.

Make sure cart has been securely connected to tractor hitch. A spring clip must be used with the hitch pin for safe operation.

Operation

Grass should be cut often, and not too short. If grass is too long or lush it may be necessary to keep ground speed to a minimum or to cut only half the width to prevent clogging. If grass is high, operate with mower in high cutting position. Cut the grass again in lower cutting position, if desired.

Always operate with throttle at full speed. Control ground speed with the shift lever.

If grass or leaves are clogging the clear tube, shut off tractor and check if cart is full.

Dumping Grass and Leaves

1. Back the tractor to the desired place for unloading. Shut the tractor's engine off before getting off the tractor's seat.
2. Unhook rubber strap on tube assembly and remove short clear tube from cart. (Mower must be in lowered position.)
3. Unhook the three latches that secure the back door of the cart. Remove the door.
4. Pull up on the handle (located on the cart tongue) to release the dump cart. Return cart to level position and latch handle before mowing again.

Maintenance

Cover

The cart and sides can be rinsed with a hose when dirty. Do not leave grass or leaves, especially if wet, in the cart for a long period of time.

Wheels

Lubricate the wheel assembly before using the cart and as necessary thereafter. Grease fittings are located on each spindle. Use SAI multi-purpose type grease.

Tires

Tire pressure should be 30 psi.

Tube

Tube can be cleaned with a mild detergent. Other products may damage tube. The flow of grass can be seen through the tube while mowing.

Removal

1. Undo rubber strap on long tube assembly and remove short tube from cart.
2. Remove cart from drawbar hitch.
3. Undo short rubber strap on blower housing and remove tube assembly. Store tube assembly as one long unit.
4. Remove drawbar from U-bracket and L-bracket by removing three spring clips and clevis pins. Store as an assembly with clips and pins.
5. U-bracket can be left attached to tractor.

